

U.S.S.N. 09/415,781  
Filed: October 8, 1999  
AMENDMENT UNDER 37 C.F.R. § 1.116

### Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

#### Listing of Claims:

1. (Currently Amended) A coated fuel cell bipolar plate comprising:  
a metal plate;  
an electrically conductive coating over the metal plate, wherein the electrically conductive coating comprises a graphite emulsion; and  
a corrosion resistant overcoating formed over the electrically conductive coating,  
the corrosion resistant overcoating including graphite;  
wherein the electrically conductive coating bonds the corrosion resistant overcoating to the metal plate.
2. (Previously Presented) A coated fuel cell bipolar plate as claimed in claim 1, wherein the metal plate comprises aluminum.
- 3-4. (Canceled).
5. (Previously Presented) A coated fuel cell bipolar plate as claimed in claim 1, where the corrosion resistant overcoating includes exfoliated graphite.
6. (Previously Presented) A coated fuel cell bipolar plate as claimed in claim 1, wherein the corrosion resistant overcoating includes porosities that are filled by the electrically conductive coating.
7. (Previously Presented) A coated fuel cell bipolar plate as claimed in claim 1, wherein the corrosion resistant overcoating is a foil.

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8. (Previously Presented) A coated fuel cell bipolar plate as claimed in claim 1, wherein the corrosion resistant overcoating includes particulate graphite flakes which have been processed through an intercalation process.
9. (Previously Presented) A coated fuel cell bipolar plate as claimed in claim 1, wherein the corrosion resistant overcoating is electrically conductive.
10. (Previously Presented) A coated fuel cell bipolar plate as claimed in claim 1, wherein the corrosion resistant overcoating is hydrophobic.
11. (Previously Presented) A coated fuel cell bipolar plate as claimed in claim 1, wherein the corrosion resistant overcoating is anisotropic.
12. (Currently Amended) A coated fuel cell bipolar plate as claimed in claim 1 comprising:  
a metal plate;  
an electrically conductive coating over the metal plate, wherein the electrically conductive coating comprises a graphite emulsion; and  
a corrosion resistant overcoating formed over the electrically conductive coating,  
the corrosion resistant overcoating including graphite;  
wherein the electrically conductive coating bonds the corrosion resistant overcoating to the metal plate, and wherein the corrosion resistant overcoating has a thickness approximately between 0.04 and 1.0 millimeters.
- 13-22. (Canceled).

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23. (Currently Amended) A coated fuel cell bipolar plate comprising:

- a metal plate including an outer surface;
- an electrically conductive coating over the outer surface, wherein the electrically conductive coating comprises a graphite emulsion; and
- an overcoating formed over the electrically conductive coating, the overcoating including graphite, the overcoating having a thickness approximately between 0.04 and 1.0 millimeters.

24-25. (Canceled).